



Brown & Root Environmental

(412) 921-7090

FAX: (412) 921-4040

C-49-09-7-203

MINUTES OF RESTORATION ADVISORY BOARD (RAB) MEETING

To: NSB-NLON RAB Meeting Attendees and RAB Members (See attached distribution list)

From: Corey Rich of Brown & Root Environmental **CR**

Date: September 29, 1997

Subject: RAB Meeting Minutes - August 6, 1997
Installation Restoration Program
Naval Submarine Base - New London (NSB-NLON)
Groton, Connecticut

Attendees of the meeting

Andy Stackpole	NSB-NLON
Mark Evans	Navy
Greta Deirocini	Navy
Kymerlee Keckler	USEPA Boston
Patti Lynne Tyler	USEPA Boston
David Peterson	USEPA Boston
Jennifer Hayes	Ganett Flemming
Mark Lewis	CTDEP
Corey Rich	Brown & Root Environmental
J. P. Pradeep	Brown & Root Environmental
Susan Orrill	RAB Co-Chair Member
Andrew Parella	RAB Member
Bart Pearson	Community
Steve Cicoria	Community
L. J. Chmura	Community (Groton City Conservation Commission)
Dave Paskavsky	Community (Groton City Conservation Commission)
Felix Prokop III	Community (Ledge Light Health District)
Dr. Norman Richards	Community (The Mohegan Tribe of Indians of Connecticut)
Noah Levine	Community

The attendance sheet is included as **Attachment 1**.



Welcome and Introduction

Andy Stackpole opened the meeting at 8:00 p.m.

Lower Base Remedial Investigation Update

Corey Rich gave a presentation on the Lower Base Remedial Investigation Work Plan (See Attachment 2).

The Work Plan is in a draft final stage. Field work will begin in September and be completed by the end of October. A draft RI is planned in January 1998.

L. J. Chmura: You mentioned you're primarily interested in the lead content. Does that mean you're not going to check for mercury?

Corey Rich: We'll be looking at a full list of metals, but lead is our primary concern at that site.

L. J. Chmura: What pier was the incinerator on?

Andy Stackpole: It was adjacent to the pier.

Corey Rich: The area where the incinerator was located is part of zone five.

L. J. Chmura: Are you going to be checking for dioxins?

Corey Rich: Sampling for dioxins were part of the Phase I RI and was not shown to be a contaminant of concern.

Noah Levine: There's been 19 studies in the last 18 years. Are they going to, at some point, do something?

Corey Rich: There has been remediation of areas in the lower base that were highly contaminated with lead approximately two or three years ago at Building 31. Also, the Navy took action on a petroleum problem that was leaking into the river. They were completed as a Time Critical Removal Action.

Noah Levine: Do you know how long they have known about the free product in the area?

Andy Stackpole: It has been known. It's an enclosed system, and you have a quay wall. It is also tidally influenced. The times that we've seen any oil that was released to the



river was when something was leaking from the quay wall. It is an area that has a lot of industrial activity, which has made remediation difficult.

Noah Levine: The free product they are considering is not a number two?

Andy Stackpole: No. During the cold weather it is sealed.

L. J. Chmura: How about the hydroblasting of the paint on the sheet piling that was going to be done. This is almost a year ago now. Has that been done?

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Area "A" Landfill Cap Installation Update

Mike Ameel from Brown & Root gave a presentation on the Area "A" Landfill Cap (See Attachment 3).

L. J. Chmura: Does the gas from the landfill go into the atmosphere?

Mike Ameel: There will be a long-term monitoring program on the gas. It's just venting to the atmosphere. Through monitoring, if it shows that the gas needs to be collected, the system can be adapted.

Mike Ameel stated that the contractor is three weeks ahead of schedule. The area is divided into four areas, and Area IV is 100 percent complete. That's going to be turned over to the base. It's a deployed parking area. The asphalt paving subcontractor will be on site starting next week, and it will take him until the end of August to complete the paving. After that, it's site restoration and contractor demobilization.

Goss Cove Landfill Update

Andy Stackpole updated the status of the Goss Cove Landfill.

L. J. Chmura: Are you taking core samples?



Andy Stackpole: No. We're taking some grab sediment samples, but no core samples.

Felix Prokop III: What's the chemical that you had problems with that you thought might have come from the cleaners?

Andy Stackpole: PCE, tetrachlorethene. We found it adjacent to the area. There is a dry cleaning operation on the corner.

Future Meeting Date/Time

Next meeting will be on November 5, 1997.

Meeting Adjourned

Meeting adjourned at 8:34 p.m..

ATTACHMENT 1

Naval Submarine Base New London

Area A Downstream
Public Meeting/Hearing

August 6, 1997

<u>Name</u>	<u>Organization</u>	<u>Address</u>
J.P. PRADEEP KUMAR	BROWN & ROOT ENVIRONMENTAL	661 ANDERSON PITTSBURGH PA 15
MICHAEL AMEEL	"	"
COREY RICH	"	"
Kimberlee Fickler	USEPA	Boston, MA
David Peterson	USEPA	Boston, MA
Noush Linares *		46 Summit Ave, N.L. CT
JENNIFER HAYES	Genette Fleming	207 Small Ave, Groton CT
Dr. Norman Richards	The Mohegan Tribe of Indians of CT.	29 Attawan Avenue, Naugatuck, CT 06357
Patricia Lynne Tyler	USEPA	Lexington, MA
Andrew Parnella	RAB - Board - City of Groton	70 Eastern Pt Rd, Groton, CT 06340
Larry H. Gibson	Resident	22 Artbridge Hollow, Gales Ferry, CT 06335
Susan Orrill	RAB member	7 Pinelock Dr, Gales Ferry, CT 06335
BART M. PEARSON	RESIDENT	1892 ROUTE 12, GROTON CT 06340
JANICE M. PEROT	SUBBASENLON PAD	
DAVE PASKAUSKY	GROTON CITY	CONNS COM #5 MAIL SKYNOW@AOL.CS
Felix Trokapt	LEDGE LIGHT HEALTH DIST	448-0650 1 Fort Hill Rd Groton 063
Mark Lewis	Conn. DEP	Hartford
MARK EVANS	Navy	Lester, PA

seats
2 AB
seats
meeting

* YES, I WOULD LIKE TO BE NOTIFIED OF ALL FUTURE MEETINGS

ATTACHMENT 2

**SUMMARY OF THE WORK PLAN / SAMPLING & ANALYSIS PLAN
FOR THE LOWER SUBBASE REMEDIAL INVESTIGATION**

**NAVAL SUBMARINE BASE - NEW LONDON
GROTON, CONNECTICUT**

**RESTORATION ADVISORY BOARD MEETING
August 6, 1997**



Brown & Root Environmental

1. PREVIOUS INVESTIGATIONS

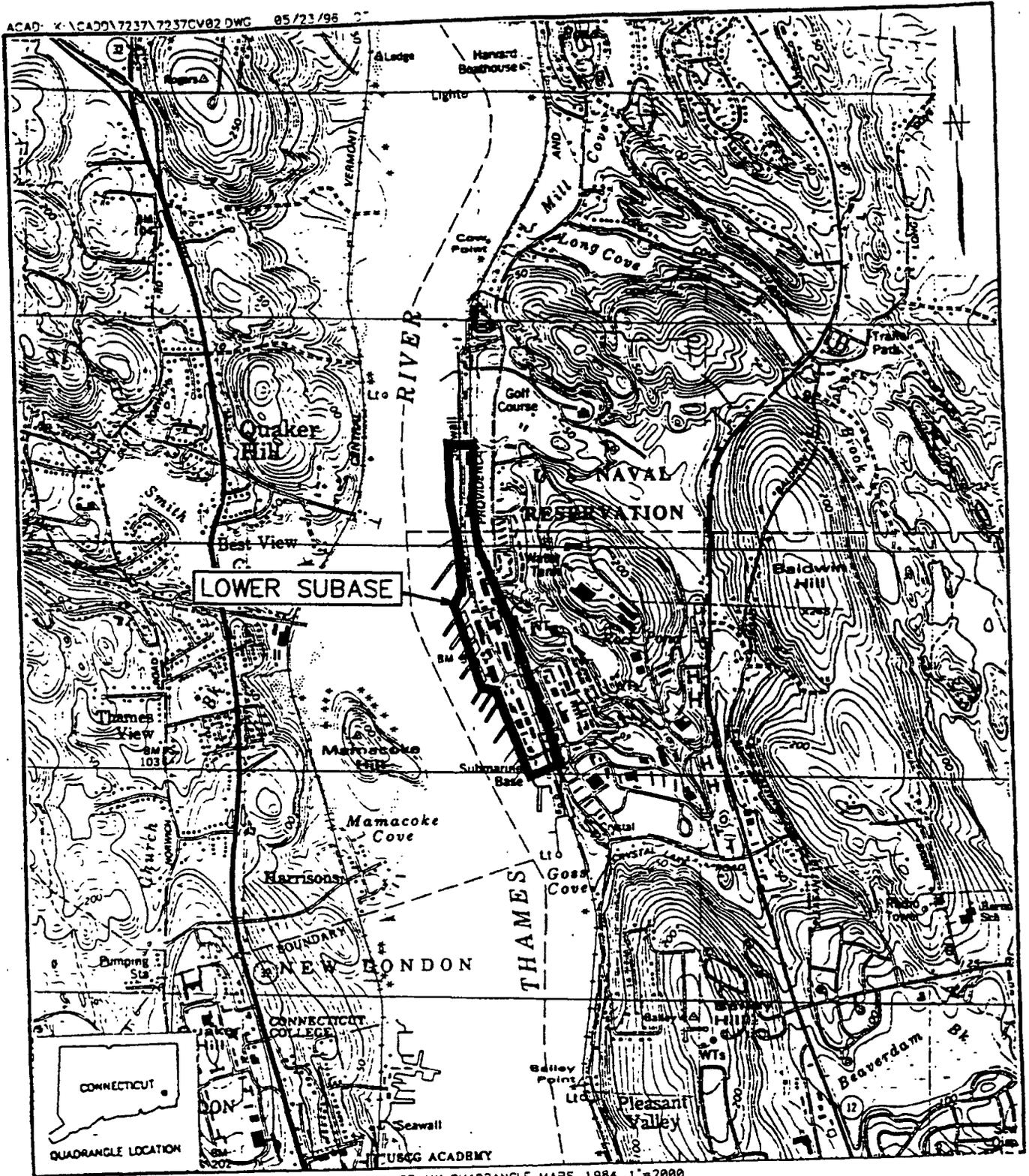
- Location of Lower Subase (FIGURE 1) and the 7 Zones of Investigation (FIGURE 2)
- Total of 19 investigations conducted that were related to the Lower Subas and Thames River over the past 18 years
- Major investigations include the Phase I RI (Atlantic, 1992) and Phase II RI (B&RE, 1997)
- Investigations conducted under several programs (IRP, UST, etc.)
- Data from previous investigations combined and evaluated in Existing Data Summary Report (B&RE, 1997). Data gaps were defined which allowed the scope of the subsequent Lower Subase RI to be developed.

2. LOWER SUBASE RI OBJECTIVES

- Define the nature and extent of contamination within the soils and groundwater of all 7 Zones
- Define the nature and extent of contamination in the sediments of the adjacent Thames River
- To identify the sources of soil and groundwater contamination
- Define the major contaminant migration pathways
- Provide supplemental data to develop a revised human health and ecological risk assessment
- Provide supplemental data to develop appropriate remedial alternatives

3. WP/SAP DEVELOPMENT

- Recommendations from Existing Data Summary Report (B&RE, 1997)
- Data Quality Objectives Process (EPA, 1994)
- Geostatistics used to delineate locations for additional sampling
- Two Phases of Investigation - Phase 1 and Phase 2



BASED ON USGS UNCASVILLE, CT AND NEW LONDON, CT-NY QUADRANGLE MAPS, 1984. 1"=2000

SITE LOCATION MAP
NSB-NLON, GROTON, CONNECTICUT

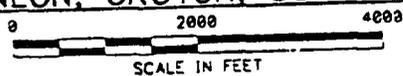
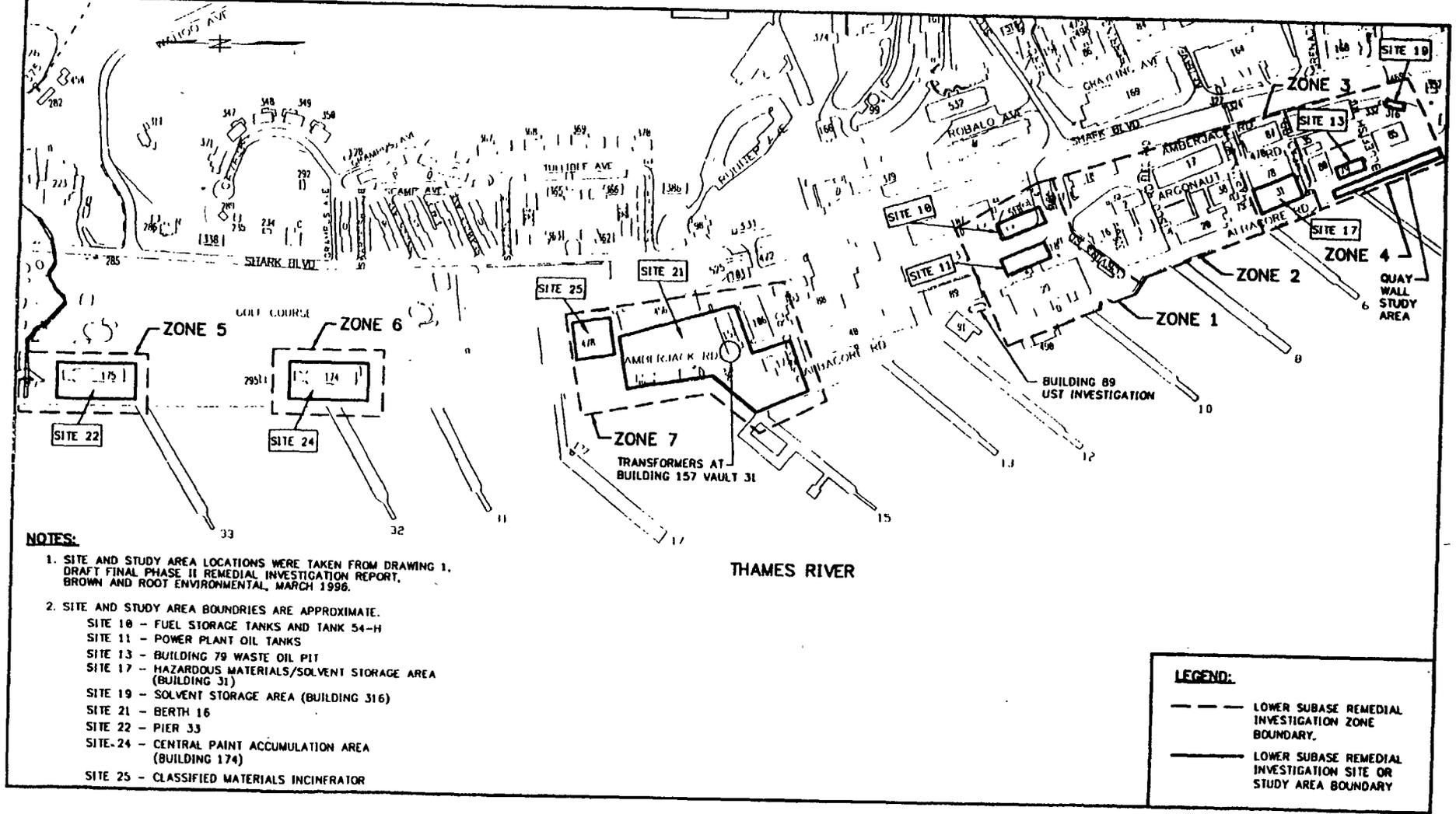


FIGURE 1

 **Brown & Root Environmental**

3 of 4



NOTES:

1. SITE AND STUDY AREA LOCATIONS WERE TAKEN FROM DRAWING 1, DRAFT FINAL PHASE II REMEDIAL INVESTIGATION REPORT, BROWN AND ROOT ENVIRONMENTAL, MARCH 1996.
2. SITE AND STUDY AREA BOUNDARIES ARE APPROXIMATE.
 - SITE 10 - FUEL STORAGE TANKS AND TANK 54-H
 - SITE 11 - POWER PLANT OIL TANKS
 - SITE 13 - BUILDING 79 WASTE OIL PIT
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 - SITE 25 - CLASSIFIED MATERIALS INCINERATOR

LEGEND:

- LOWER SUBASE REMEDIAL INVESTIGATION ZONE BOUNDARY.
- LOWER SUBASE REMEDIAL INVESTIGATION SITE OR STUDY AREA BOUNDARY

**LOWER SUBASE
ZONE AND SITE LOCATION MAP**
MSB HIGH CRATER, CONNECTICUT

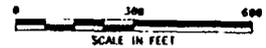


FIGURE 2

4. PHASE 1

- Soil Borings - 48
- Installation and Development of monitoring wells - 14
- Soil sampling - 48 Shallow and 48 Deep

5. PHASE 2

- Groundwater Sampling - 56 monitoring wells
- Free-product Thickness Measurements - 56 monitoring wells
- Water Level Measurements - 56 monitoring wells
- Sediment Sampling - 20 locations
- Surface Water Quality Measurements - 20 locations (shallow and deep)
- Other sampling based on results of Phase 1 of the investigation

6. SCHEDULE

- Final WP/SAP - August 1997
- Phase 1 - September 1997
- Phase 2 - October 1997
- Draft RI - January/February 1998

ATTACHMENT 3

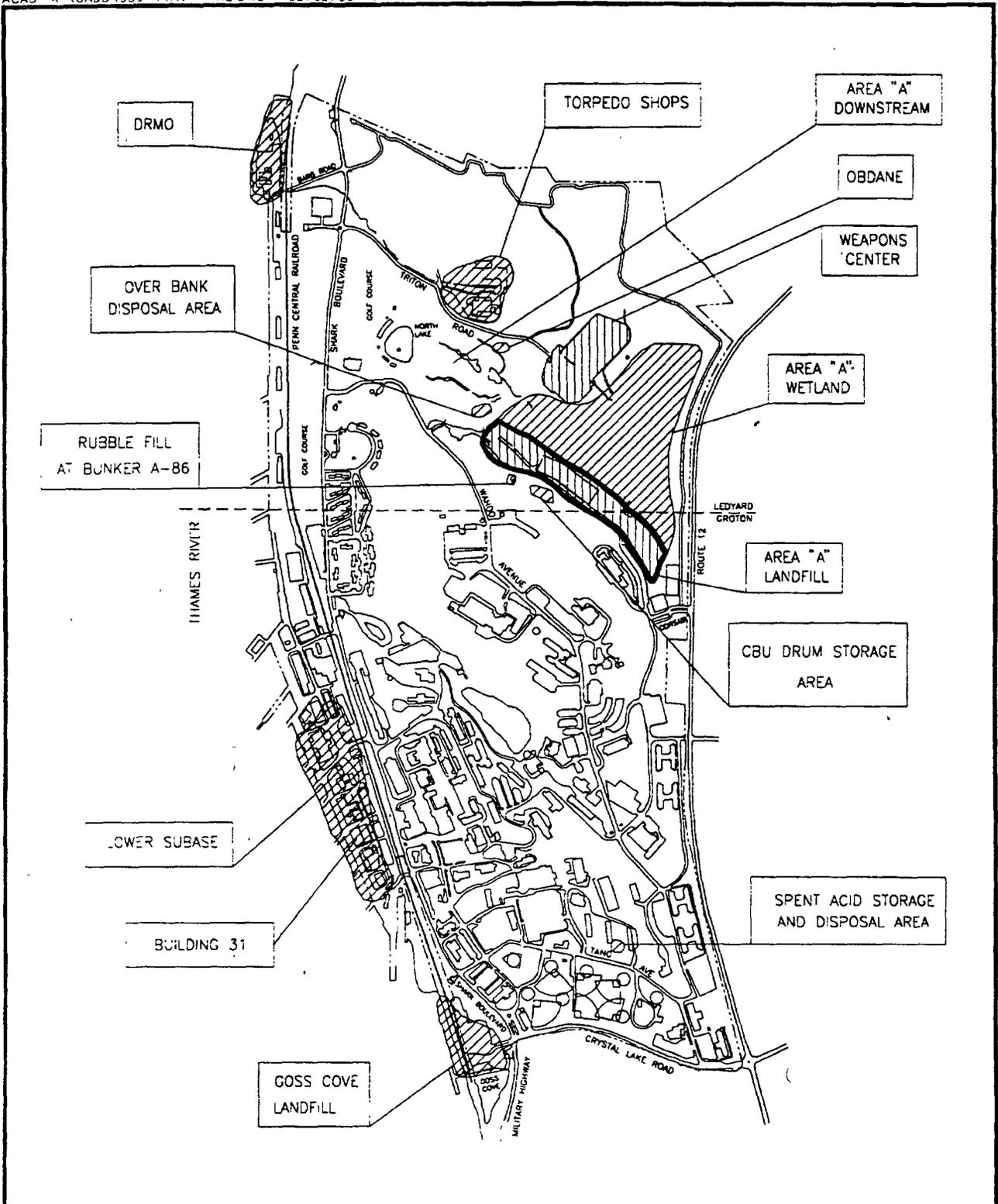
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**NAVAL SUBMARINE BASE - NEW LONDON
GROTON, CONNECTICUT**

**RESTORATION ADVISORY BOARD MEETING
August 6, 1997**



Brown & Root Environmental



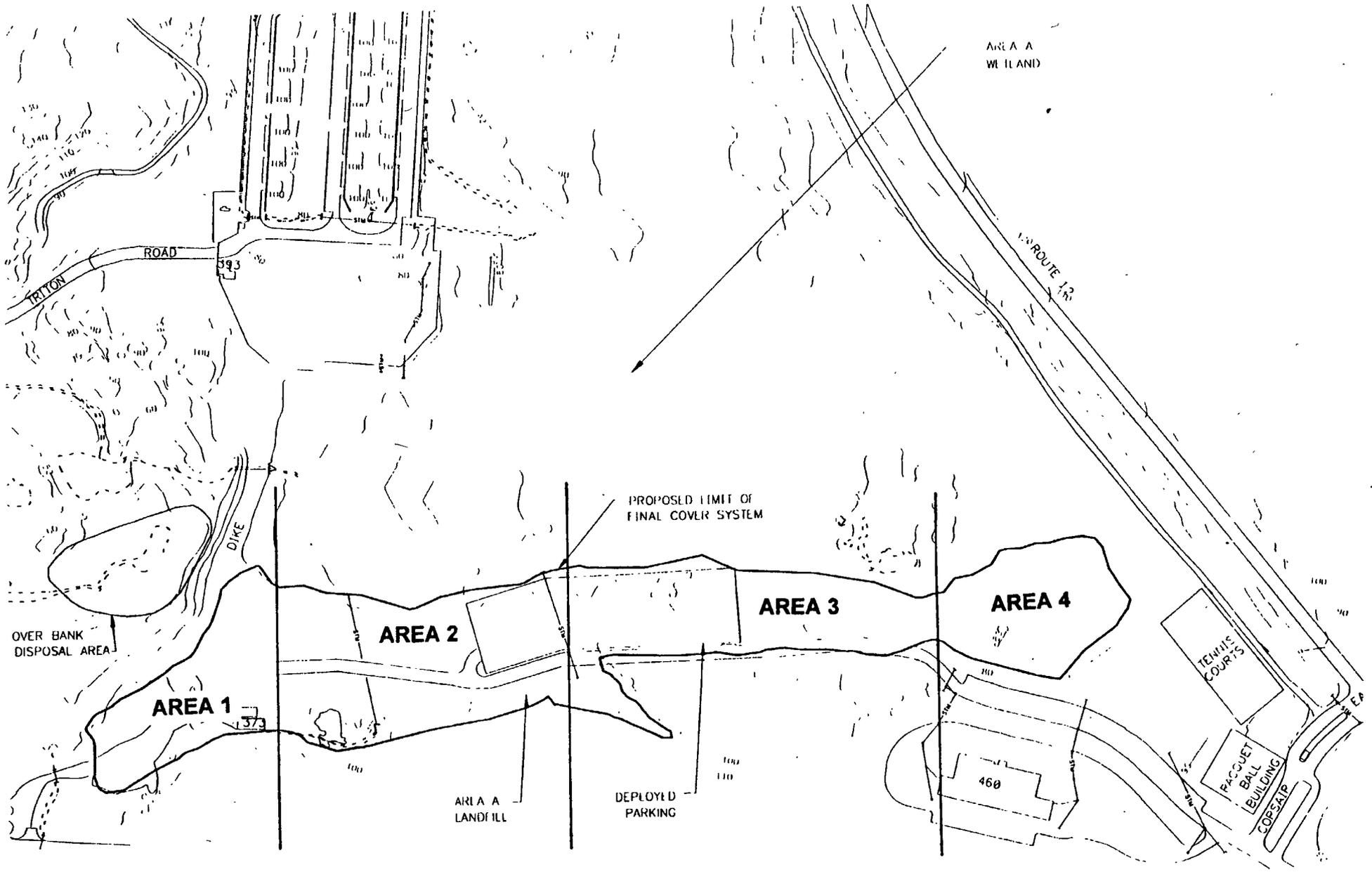
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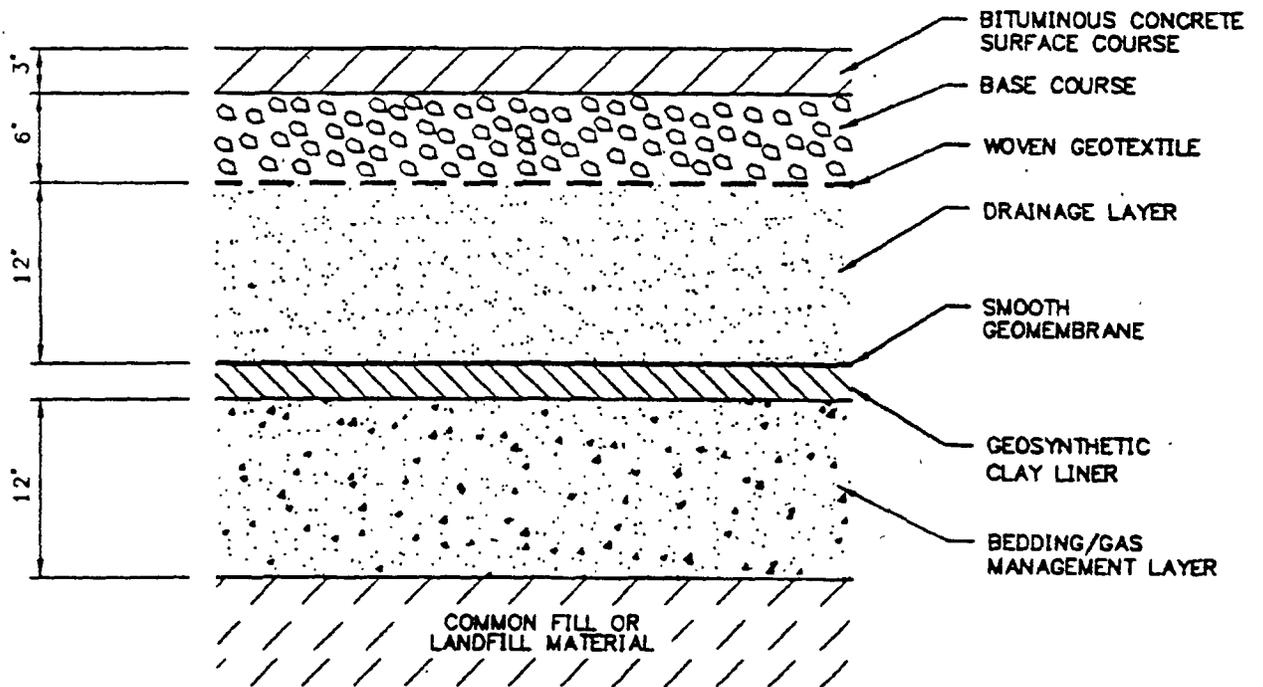
SOURCE: Naval Submarine Base
 Existing Conditions
 April 1985
 Loureiro Engineering Associates



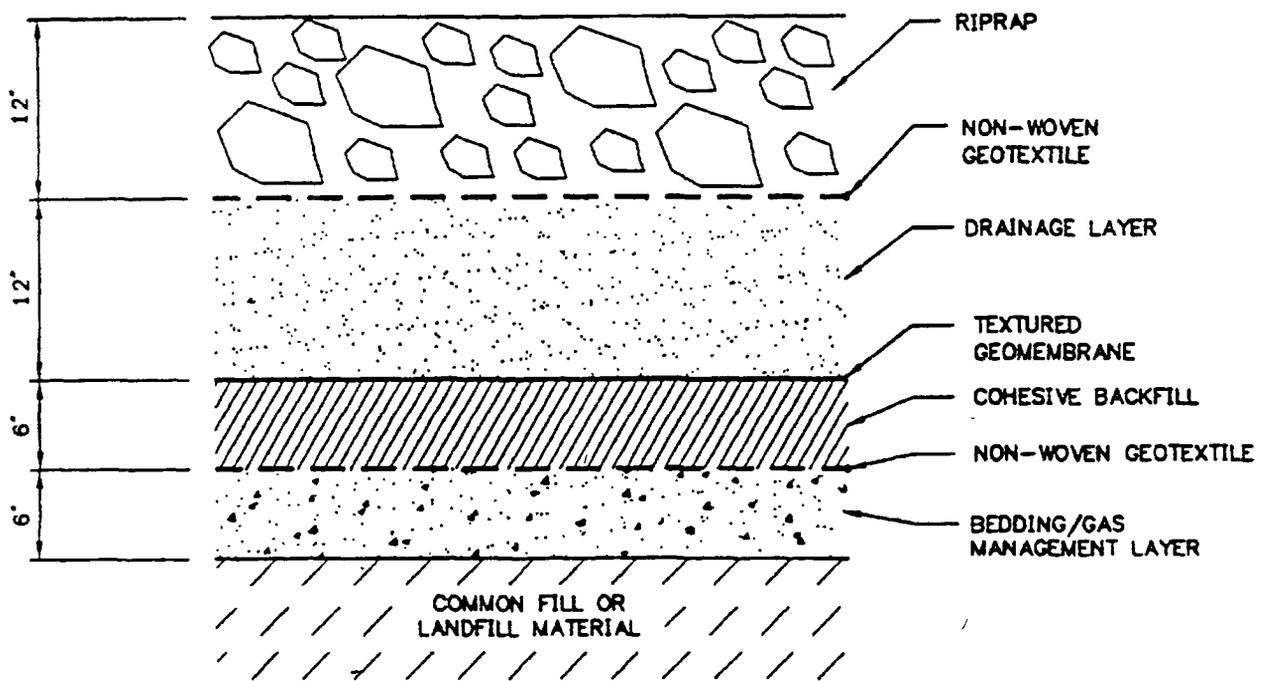
C 600 1200
 GRAPHIC SCALE IN FEET

FIGURE 1-1
SITE LOCATION MAP





H-20 PLATEAU AREA FINAL COVER SYSTEM



SIDESLOPE AREA FINAL COVER SYSTEM



C-49-09-7-203

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August 6, 1997

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MICHAEL AMEEL	"	"
COREY RICH	"	"
Kimberlee Fickler	USEPA	Boston, MA
David Peterson	USEPA	Boston, MA
NOON LIVING * JENNIFER HAYES	Groton Flooding = The Mohegan Tr of Indians of C.	
Dr. Norman Richards		
Patricia Lynn Tyler	USEPA	Lexington, MA
Andrew Parrella	RAB - BOARD - CITY OF G	
Larry H. Gibson	Resident	
Susan Orrill	RAB member	
BART M. PEARSON	RESIDENT	
JANICE M. PEROT	SUBSENLON RAB	
DAVE PASKAUSKY	GROTON CITY C	
Felix Trokopff	LEDGE LIGHT HEALTH DIST	
Mark Lewis	Conn. DEP	Hartford
MARK EVANS	Navy	Lester, PA

2000s
ZAB
extra
meeting

35

20 063

* YES, I WOULD LIKE TO BE NOTIFIED OF ALL PERMANENT MEETINGS

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**RESTORATION ADVISORY BOARD MEETING
August 6, 1997**



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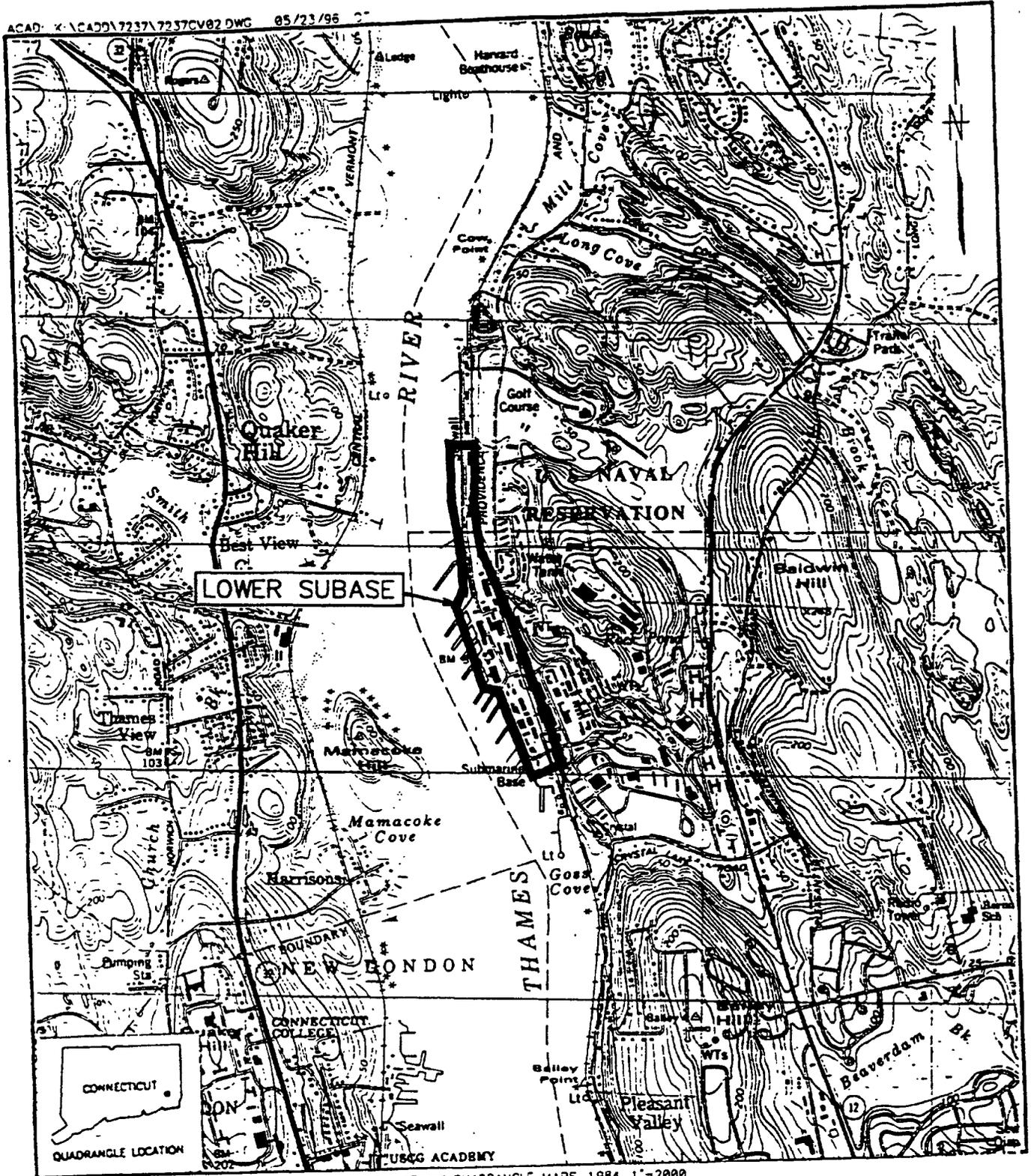
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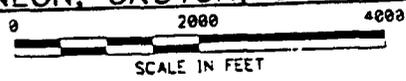
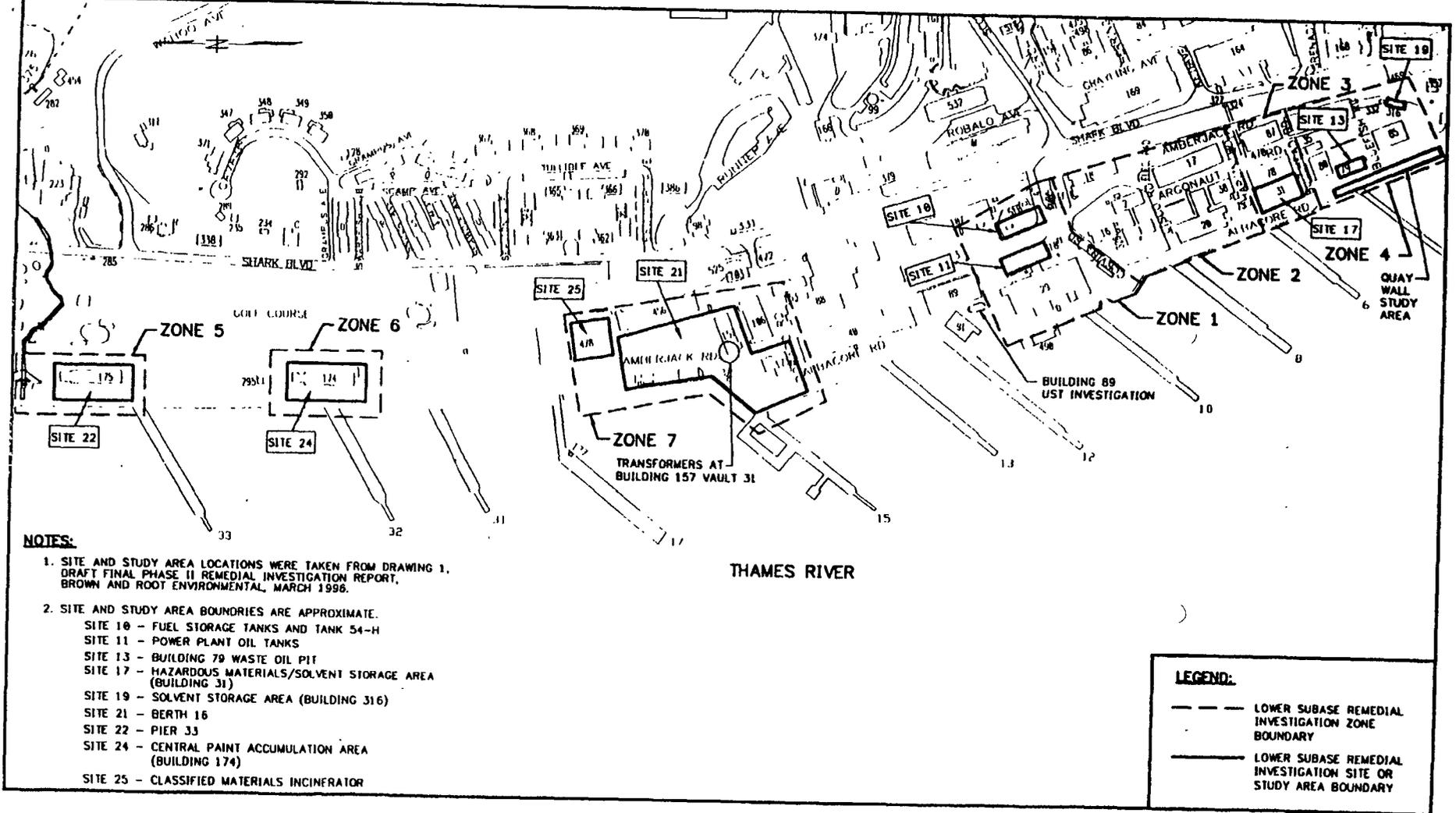


FIGURE 1


Brown & Root Environmental

3 OF 4



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**LOWER SUBBASE
ZONE AND SITE LOCATION MAP**
MORRISON, CONNECTICUT

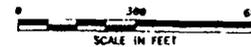


FIGURE 2

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ATTACHMENT 3

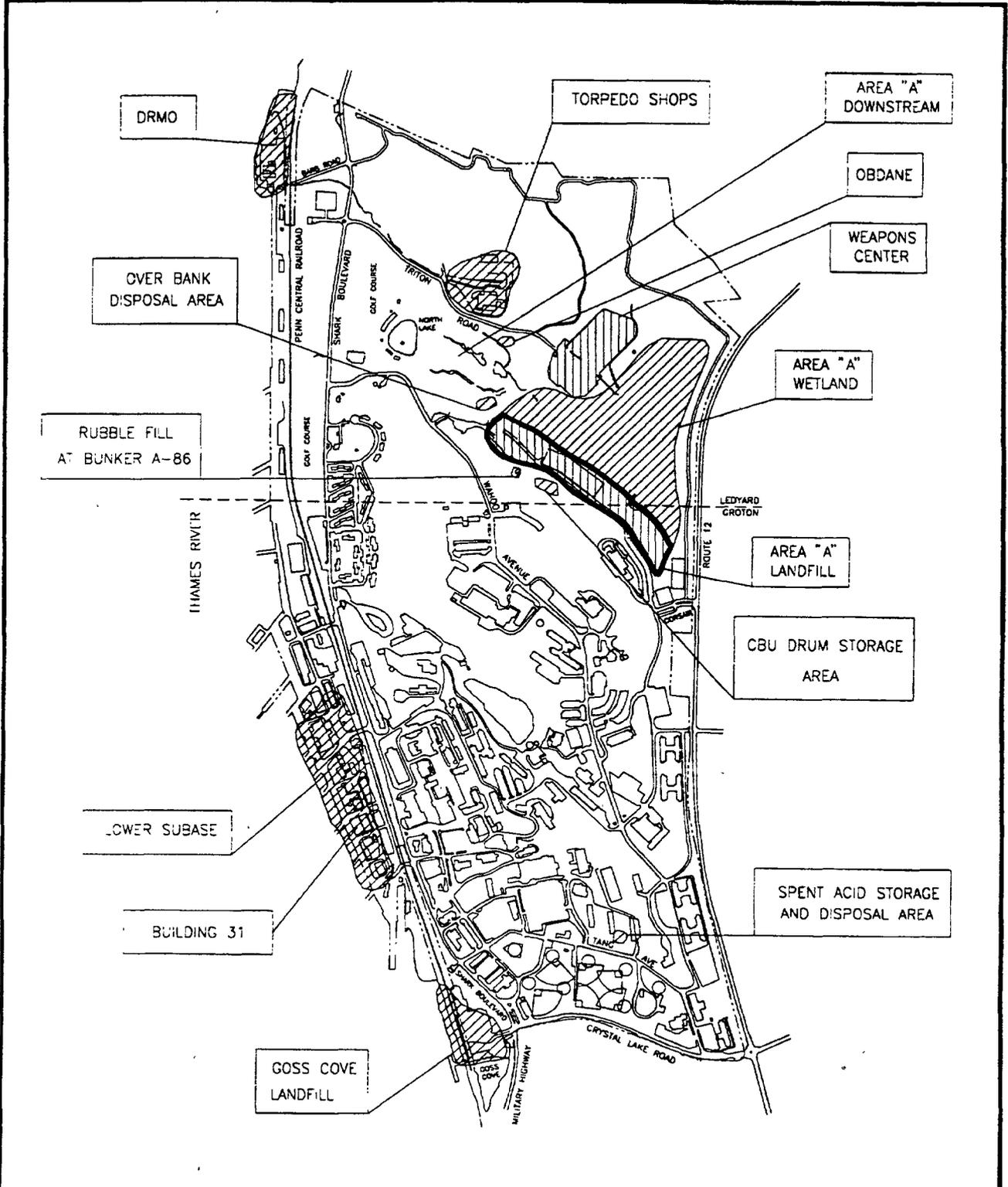
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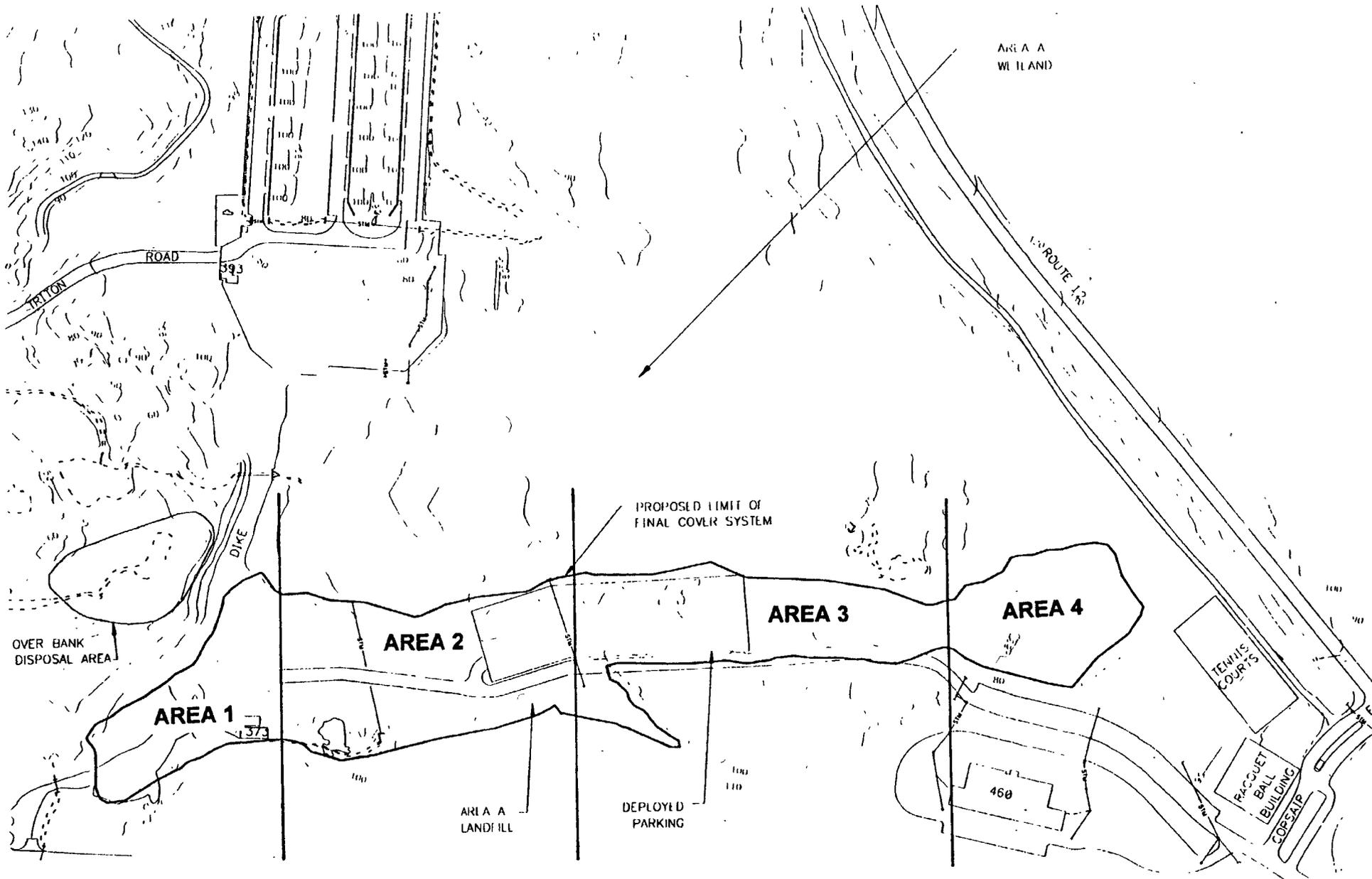
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NSB NLON
GROTON, CONNECTICUT

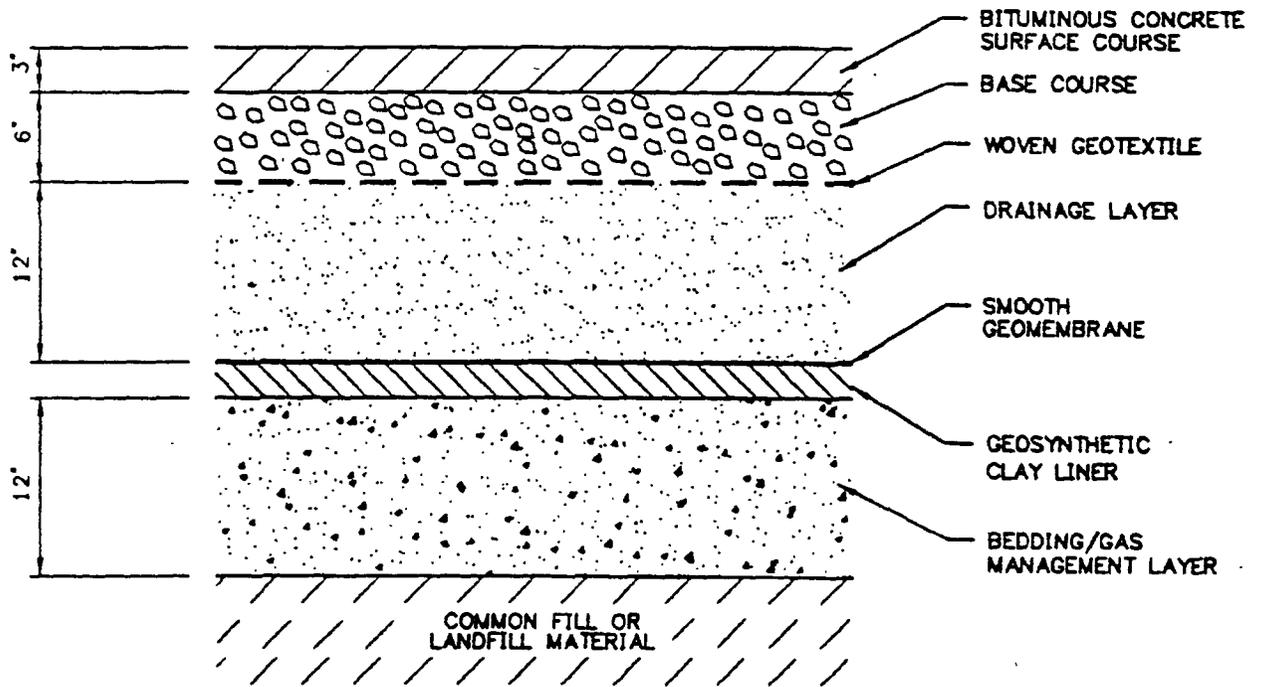
SOURCE Naval Submarine Base
 Existing Conditions
 April 1985
 Loureiro Engineering Associates



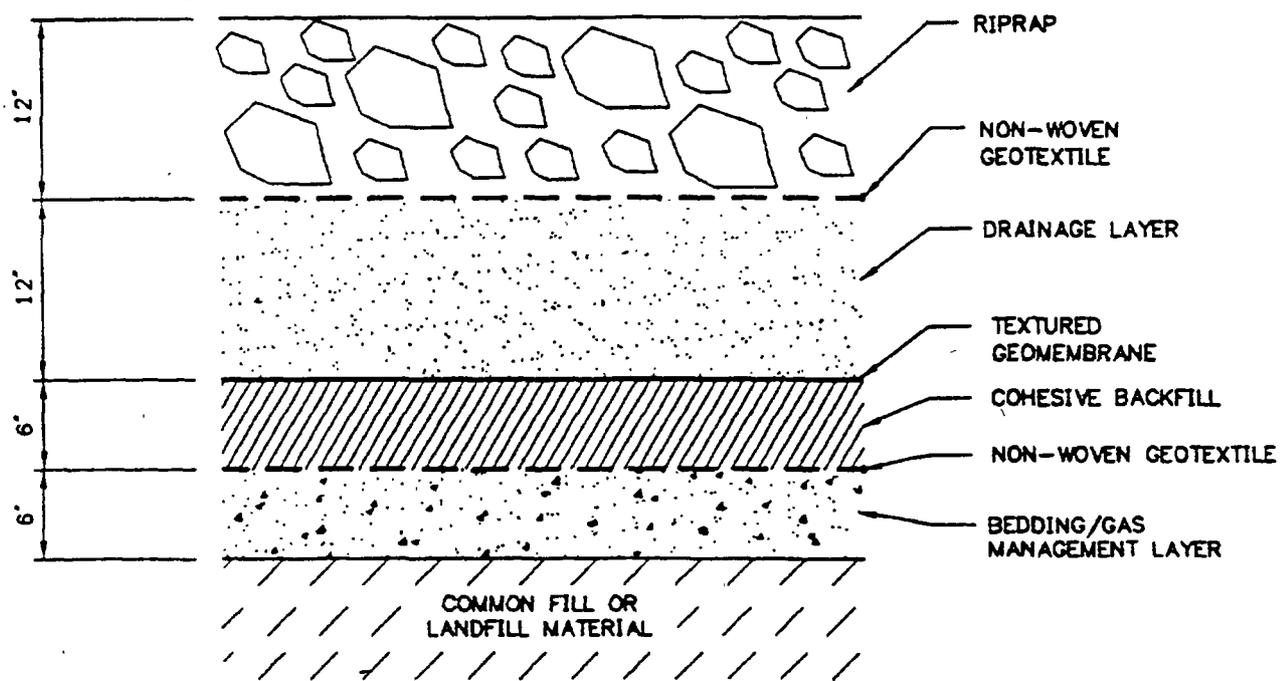
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FIGURE 1-1
SITE LOCATION MAP





H-20 PLATEAU AREA FINAL COVER SYSTEM



SIDESLOPE AREA FINAL COVER SYSTEM